

What is claimed is:

- [Claim 1]** 1. A wide receiving range antenna comprising a holder base, a resonator unit connected to one end of said holder base for receiving signal, and a coaxial cable inserted through said holder base and connected to said resonator unit, wherein said resonator unit is made of metal, comprising a barrel, said barrel having a first end connected to said holder base and a second end, a metal block spaced from the second end of said barrel at a predetermined distance, said metal block having a first side facing said barrel and connected to said coaxial cable and a second side, and a plurality of resonators axially extended from the second side of said metal block adapted to receive signals of different frequencies and transmitting received signals to an electronic device through said coaxial cable.
- [Claim 2]** 2. The wide receiving range antenna as claimed in claim 1, wherein said resonators are arranged in parallel.
- [Claim 3]** 3. The wide receiving range antenna as claimed in claim 1, wherein said resonators are tubular members of different diameters axially connected in a line.
- [Claim 4]** 4. The wide receiving range antenna as claimed in claim 1, wherein said resonators are formed integral with said metal block, each having a sloping surface portion respectively connected to the adjacent resonator.
- [Claim 5]** 5. The wide receiving range antenna as claimed in claim 1, wherein said barrel and said resonators are respectively made of copper.
- [Claim 6]** 6. The wide receiving range antenna as claimed in claim 2, wherein said barrel and said resonators are respectively made of copper.

- [Claim 7] 7. The wide receiving range antenna as claimed in claim 3, wherein said barrel and said resonators are respectively made of copper.
- [Claim 8] 8. The wide receiving range antenna as claimed in claim 4, wherein said barrel and said resonators are respectively made of copper.
- [Claim 9] 9. The wide receiving range antenna as claimed in claim 1, wherein said holder base comprises a holder and a swivel connector pivotally coupled to said holder and adapted to receive said barrel.
- [Claim 10] 10. The wide receiving range antenna as claimed in claim 1, wherein said resonator unit is covered by a shell made of electrically insulative material.
- [Claim 11] 11. The wide receiving range antenna as claimed in claim 1, wherein the distance between said barrel and said metal block is set within $1/12\lambda \sim 1/25\lambda$ of the center carrier of high frequency band for high frequency application.